

Discover the therapeutic potential of

carbohydrates



Sussex Research is a spin-off of the National Research Council (NRC) of Canada. Operations are carried out at the Industrial Partnership Facility at NRC's flagship research facility in Ottawa, Canada.

Design, synthesis and manufacture of carbohydrate-based molecules.

Sussex Research is highly equipped and well versed in carbohydrate synthesis. We offer a portfolio of diverse carbohydrate-based products and highly active in custom synthesis and contract manufacture of oligosaccharides, glycosaminoglycans, glycoamino acids, glycopeptides, carbohydrates with functionalized linkers/spacers and a wide variety of synthetic building blocks. For more information see our Products and Services offerings.

Facility

Sussex Research, a spin-off of the National Research Council (NRC) of Canada, is housed at the NRC Industry Partnership Facility within NRC's research facility (right) at 100 Sussex Drive in Ottawa, Canada.



Careers

Sussex Research is dedicated to the synthesis of carbohydrate-based molecules. We utilize chemical, enzymatic and chemo-enzymatic synthetic approaches to access our target glycosystems. If you have specific experience in carbohydrate synthesis or related chemistries and enjoy synthetic challenges, please send an electronic copy of your curriculum vitae to Sussex Research.

Products

A modern glycoproduct portfolio designed to advance your research & development. At Sussex Research, we take great pride in the conception, development and manufacture of a novel portfolio of carbohydrate-based products for the innovative modern researcher. From functionalized carbohydrate molecules such as Fmoc glycoamino acids for glycopeptide synthesis and

PEGylated Glycosides for protein modification to polysaccharides for study and development of vaccines, the Sussex product portfolio is wide-ranging.

Custom Synthesis

Sussex Research is known worldwide for its custom synthesis and contract R&D capabilities which utilize our core expertise in carbohydrate synthesis and method development. We provide custom synthesis solutions for biopharmaceutical, therapeutic, diagnostic and research applications for development of molecules that incorporate glycotecnology or exploit glycobiology. We excel at oligosaccharide, glycopeptide and glycoconjugate synthesis. All materials produced at Sussex are thoroughly analyzed and characterized on-site via a variety of state-of-the-art spectroscopic techniques including high field nmr and mass spectrometry.

Modified Carbohydrates

Sussex Research prepares a wide variety of special modified carbohydrates and carbohydrate intermediates.

Glycopeptides

Sussex Research prepares a wide variety of custom glycopeptides. Sussex has years of experience in the glycopeptide field. We welcome your custom synthesis and will adapt our synthetic methodologies to accommodate your specific needs. Please consult with us on your project requirements.

Oligosaccharides

Sussex welcomes custom synthesis (di-, tri, tetra- or larger saccharide or glycosamino glycan (GAG) oligosaccharide) and will utilise its synthetic expertise to accommodate the specific needs of our collaborative partners. For specific or custom requirements, please contact us at your convenience.

Analytical Services

Sussex Research offers analytical and bioanalytical services on a fee-for-service basis – from glycoanalysis in support of structure characterization to small molecule characterization and bioanalytical analysis in support of drug discovery and research programs.

Structural Analysis of Carbohydrates

Sussex Research offers comprehensive services for structural analysis of carbohydrates.

Our Glycoanalysis Laboratory draws on its extensive experience in high-resolution and solid-state Nuclear Magnetic Resonance (NMR), Mass Spectrometry (MS) and leading expertise in the purification and chemical characterization of glycans.

Bioanalytical Services

Sussex Research is a trusted analytical partner in pharmaceutical, agricultural and other research areas. We meet the challenge of providing rapid turn-around of quality bioanalytical results to facilitate the advancement of research programs. Sussex Research has extensive experience in the bioanalysis of small molecules and natural compounds and draws on this experience to develop custom assays and provide routine sample analysis.

Client communication is key in our ability to provide responsive, flexible and timely bioanalytical services. We provide continuous and open communication during method development and/or sample analysis and provide full reports upon completion of each bioanalytical study.

We employ LC-MS/MS, LC-MS and HPLC techniques in our analytical methodology.

1. [Pharmaceutical Discovery Support](#)
2. [Carbohydrate Analysis](#)
3. [Amino Acid Analysis](#)
4. [Fatty Acid Analysis](#)

Contact Us

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